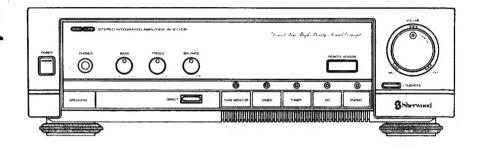
# SERVICE MANUAL

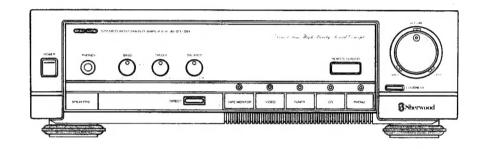
# **AI-2110R**

**STEREO INTEGRATED AMPLIFIER** 



### **AI-2115R**

**STEREO INTEGRATED AMPLIFIER** 



#### **CONTENTS**

Safety Precaution	Exploded View (I)
Specifications	Exploded View (II)
Block Diagram 5	Electrical Parts List
Circuit Description	Mechanical Parts List
P.C. Boards (Top & Bottom Views) 9	Schematic Diagram (Remocon Part)27
Wiring Diagram (I)	Schematic Diagram Separate Sheet
Wiring Diagram (II)	-



### Safety Precaution

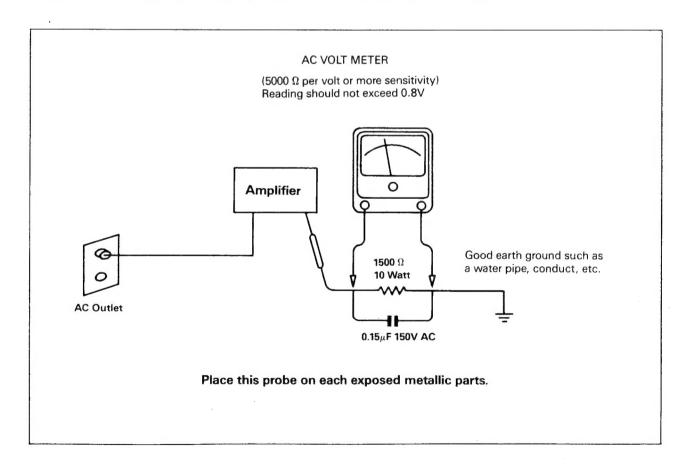
#### WARNING

Service should not be attempted by anyone unfamiliar with the necessary precautions on this player. The following precautions are necessary during servicing.

- 1. Many electrical and mechanical parts in this player have special characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristic are identified in this manual and its supplements: electrical components having such features are identified by a  $\triangle$  in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the some safety characteristics as specified in the parts list may create shock, fire or other hazards.
- Before returning the set to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as

terminals, screwheads, metal overlays, etc. to be sure the set is safe to operate without danger of electrical shock. Plug the AC line cord directly into a 120V AC outlet. (Do not use a line isolation transformer during this check.) Use an AC voltmeter having 5000  $\Omega$  per volt or more sensitivity in the following manner:

Connect a 1500  $\Omega$  10 watt resistor paralleled by a 0.15 $\mu$ F, 150V AC capacitor, between a known good earth ground (water pipe, conduct, etc) and the exposed metallic parts, one at a time. Measure The AC voltage across the combination of 1500  $\Omega$  resistor and 0.15 $\mu$ F capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.3volts RMS. This corresponds to 0.2mA AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



### **Specifications**

### **USA/Canadian version**

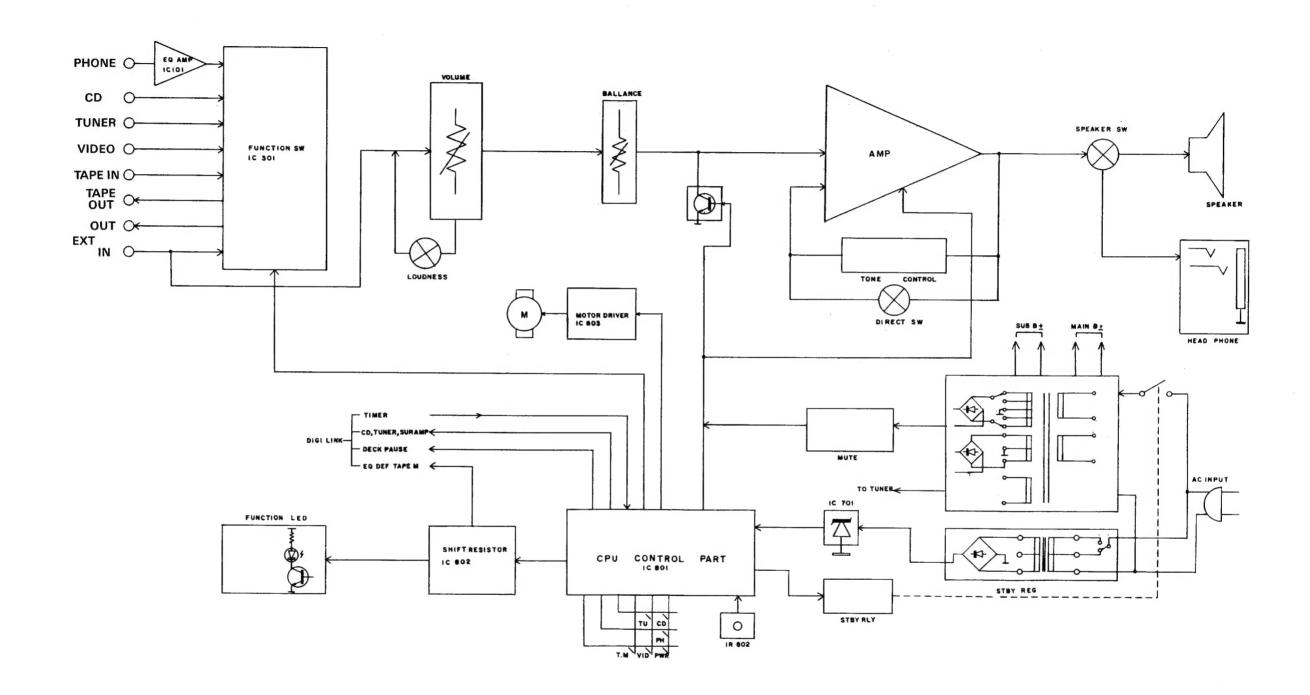
Power output/ch.	
Minimum continuous average both channels driven with no n	nore than 0.3% THD.
at 8 ohms 1kHz	
	73W for Al2215R
at 8 ohms 20Hz to 20kHz	50W for AI2215R
<u> </u>	70W for Al2215R
Intermodulation Distortion, 60Hz: 7kHz=4:1 SMPTE	
50W for Al2110R (100W for Al2115R), output into 8 ohms	0.04%
Damping Factor at 1 kHz into 8 ohms	
Input Sensitivity for 100W output, 8 ohms at 1 kHz	
Phono	2 Fm\/
Aux/Tuner	
	ISOIIIV
Phono Preamp input overload;	150-01/
at 1 kHz, 0.1% THD	
at 10 kHz, 0.1% THD	600mv
Signal to Noise ratio, IHF "A" wtd./unwtd.;	74/00 17
Phono	74/66dB
CD/Video (Aux (CD/Video) for Al2115R)	
Frequency Response	
Phono, RIAA 40-20,000 Hz	
CD at 1W, -3dB	20Hz — 50kHz
Loudness Contour	
at 100 Hz	
Tone Control;	
Bass at 100Hz	
Treble at 10kHz	± 10dB
Channel Separation at Aux	
at 100 Hz	
at 1 kHz	
at 10kHz	
Power Consumption	
Total Concerns to the Concerns	Typical 102W (min. 13W, max. 290W) for Al2115R
Power requirements;	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
A: 120V 50Hz for USA/Canadian version	
B: 120/220V 60/50Hz for multi-voltage version(switchable)	
C: 220V 50Hz for general Europian version	
D: 220V 50Hz for Germanian & Italian version	
E: 240V 50Hz for British & Australian version	
F: 220V 50Hz for Swiss & Scandinabian version	
Dimensions (W×H×D)	250 v 20 v 290mm 12 0 v 2 5 v 11 0 inch
Weight (net)	0.3kg (14 lbs, 4.80z)

### **Europian version**

Power output/ch.	
IEC standard 63Hz to 12.5kHz 8 ohms	7
77W for Al2115F	7
DIN standard 1kHz 8 ohms	3
82W for Al2115F	7
Total Harmonic Distortion at -6dB rated output 1kHz 8 ohms	6
Intermodulation Distortion at -6dB rated output 8 ohms	6
Damping Factor at 1 kHz into 8 ohms5	
Input Sensitivity for 100W output at 1 kHz 8 ohms	
Phono	V
Aux/Tuner	
Phono Preamp input overload;	
at 1 kHz, 0,1% THD	V
at 10 kHz, 0.1% THD	
Signal to Noise ratio, IEC "A" wtd./unwtd.;	
Phono: 5mV input 2.2kohm shorted and vol. adj. to 100W	8
AUX : 500mV input 2.2kohm shorted and vol. adj. to 100W	3
Frequency Response	_
Phono, RIAA 40-20,000 Hz	8
Aux at 1W, -3dB	
Loudness Contour	_
at 100 Hz	3
Tone Control;	-
Bass at 100Hz	8
Treble at 10kHz	
Power Consumption	
Max. 290W, min 13W for Al2115F	R
Power requirements;	•
A: 120V 50Hz for USA/Canadian version	
B: 120/220V 60/50Hz for multi-voltage version (switchable)	
C: 220V 50Hz for general Europian version	
D: 220V 50Hz for Germanian & Italian version	
E: 240V 50Hz for British & Australian version	
F: 220V 50Hz for Swiss & Scandinabian version	
Dimensions (W×H×D)	h
Weight(net)	
vveignt(flet/ 0.5kg (14 lbs, 4.602	. /

**Note:** Specifications and design subject to change without notice for improvements. Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the American(A) standard, and provides information on regional circuit modification through use of aletrnate schematic or wiring diagram, and information on regional component variations through use of parts list.

# Block Diagram

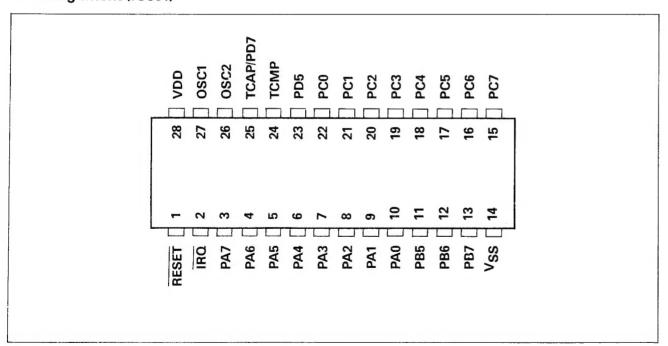


### Circuit Description

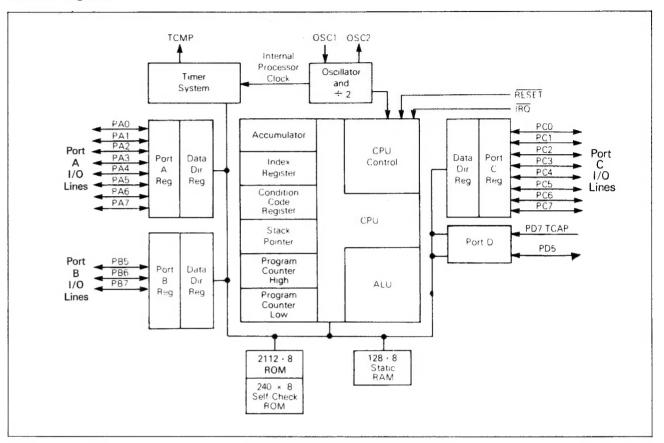
### Function Assigned (MC68HC05P: IC801)

No.	Terminal	Operating	Remark
1	RESET		Q804
2	IRQ	5V	
3	PA7 (Power on/off)	ov	Q802
4	PA6 (Deck Pause)		Q803
5	PA5 (Strobe)		IC802
4 5 6 7	PA4 (Data)		IC802, IC301
7	PA3 (Clock)		IC802, IC301
8 9	PA2 (Strobe)		IC301
	PA1 (Standby LED)		Q804
10	PA0 (Mute)		Q812
11	PB5 (Vol. Down)		IC803
12	PB6 (Vol. Down)		IC803
13	PB7 (Philips Generator)		Q805 for CD, Tuner only
14	Vss		
15	PC7 (AC Cord off)	0V	,
16	PC6		
17	PC5 (Key scan 3)	<u> </u>	Key Matrix
18	PC4 (Key scan 2)		"
.19	PC3 (Key scan 1)		"
20	PC2 (Key in 3)	5V	"
21	PC1 (Key in 2)	0V	n .
22	PC0 (Key in 1)		"
23	PD5 (Timer in)		
24	NC		Ground
25	PD7 (Remocon in)		Q806
26	X		OSC
27	EX		4MHz
28	Vdd		

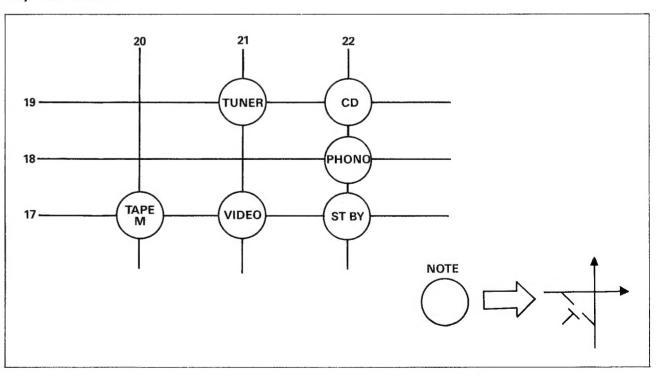
### Pin Assignment (IC801)



### **Block Diagram**



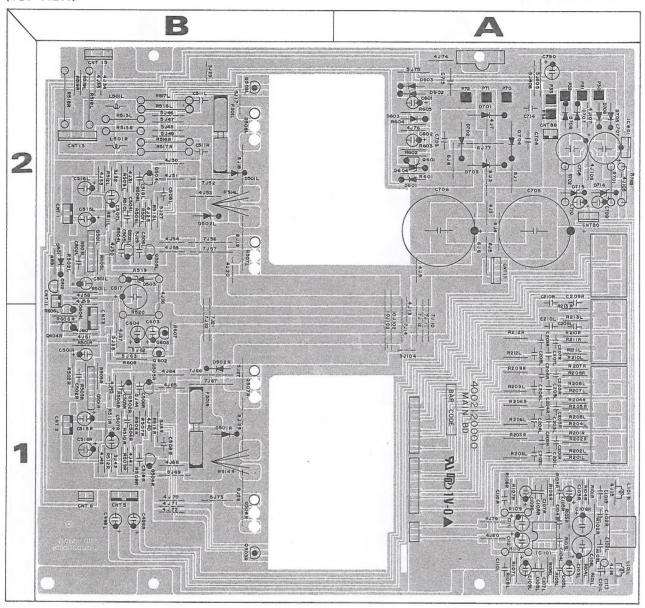
### Key Matrix (IC801)



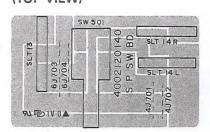
### P.C. Boards (Top & Bottom Views)

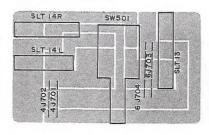
MAIN P.C. BOARD 4002120000

(TOP VIEW)

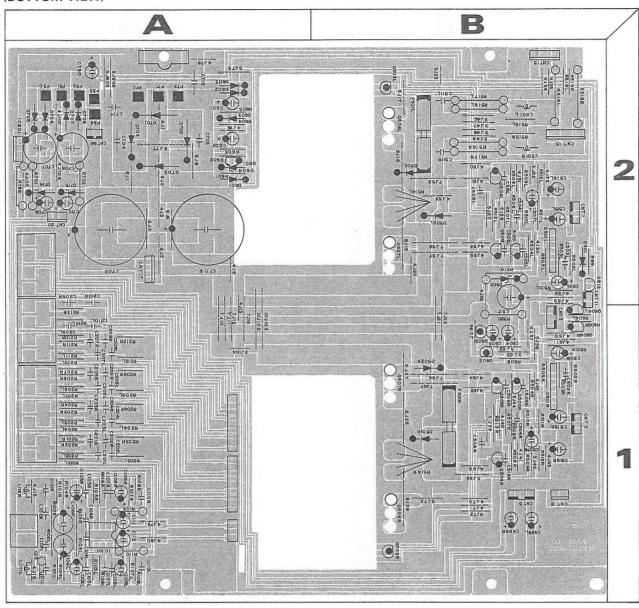


# SPKR SW P.C. BOARD 4002120140 (TOP VIEW)



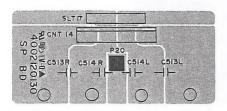


#### (BOTTOM VIEW)



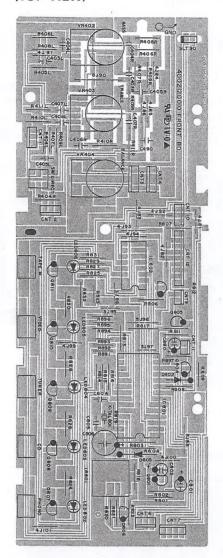
#### S.P P.C. BOARD 4002120130

#### (TOP VIEW)





# FRONT P.C. BOARD 4002120010 (TOP VIEW)

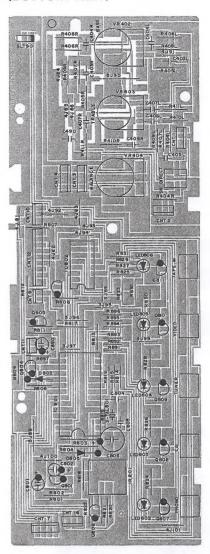


H.P P.C. BOARD 4002120020 (TOP VIEW)



(BOTTOM VIEW)





ST BY SW P.C. BOARD 4002120030

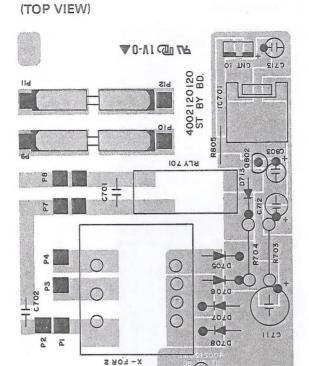




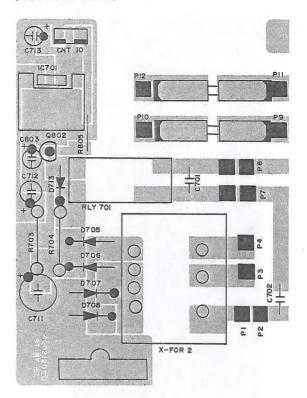
(BOTTOM VIEW)



### ST BY P.C BOARD 4002120120

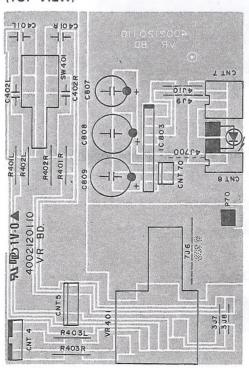


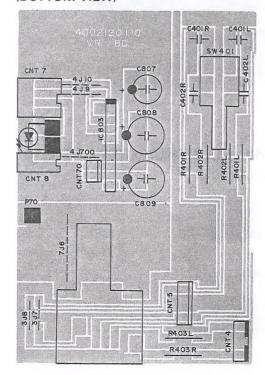
#### (BOTTOM VIEW)



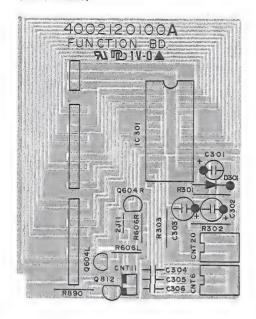
### VR P.C. BOARD 4002120110

(TOP VIEW)

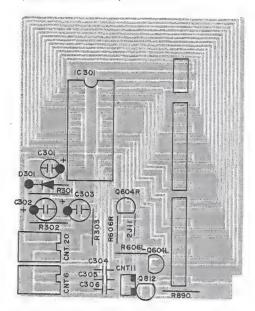




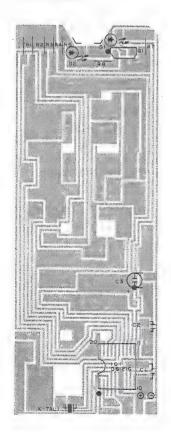
# FUNCTION P.C. BOARD 4002120100 (TOP VIEW)

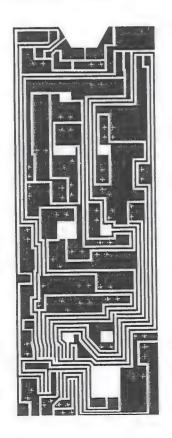


#### (BOTTOM VIEW)

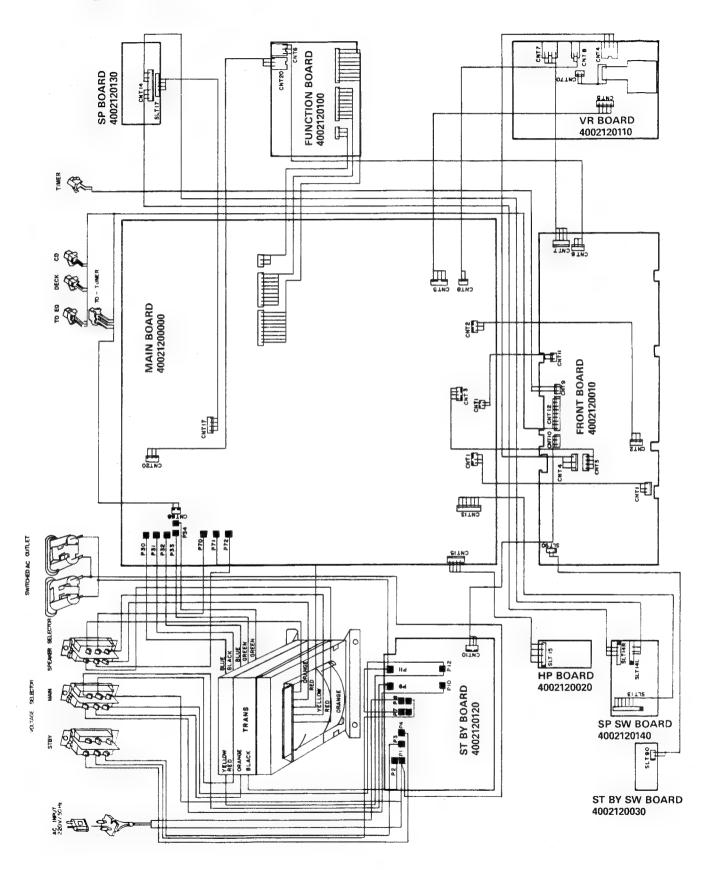


REMOCON P.C. BOARD 4005212100 (TOP VIEW)

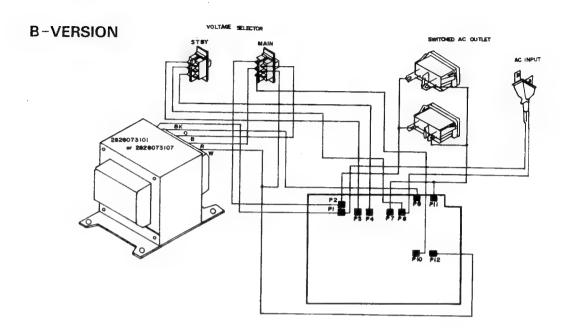


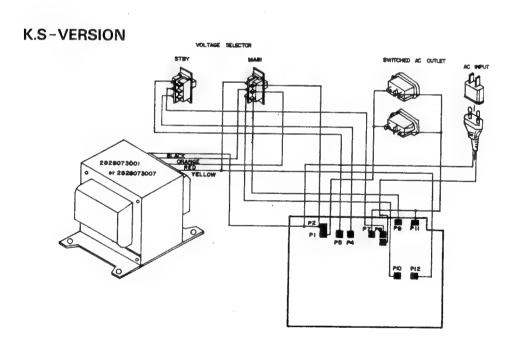


### Wiring Diagram(I)

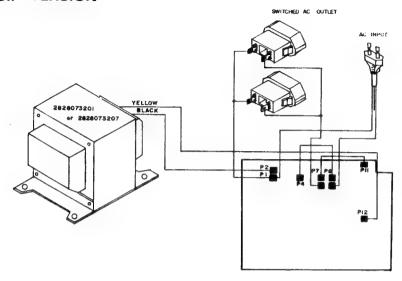


# Wiring Diagram (II)

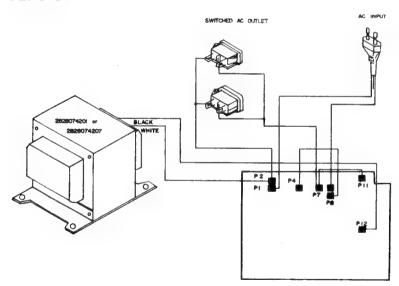




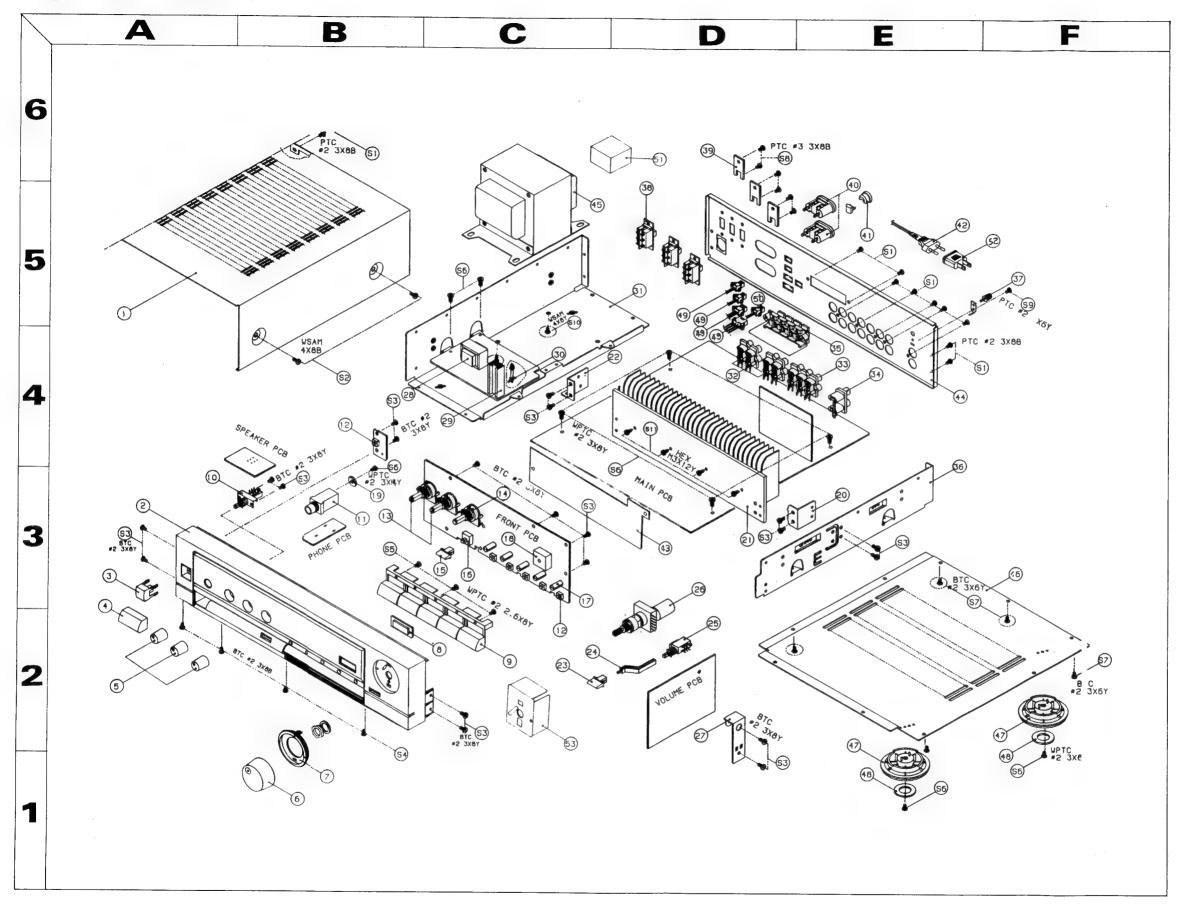
### C.D.F-VERSION



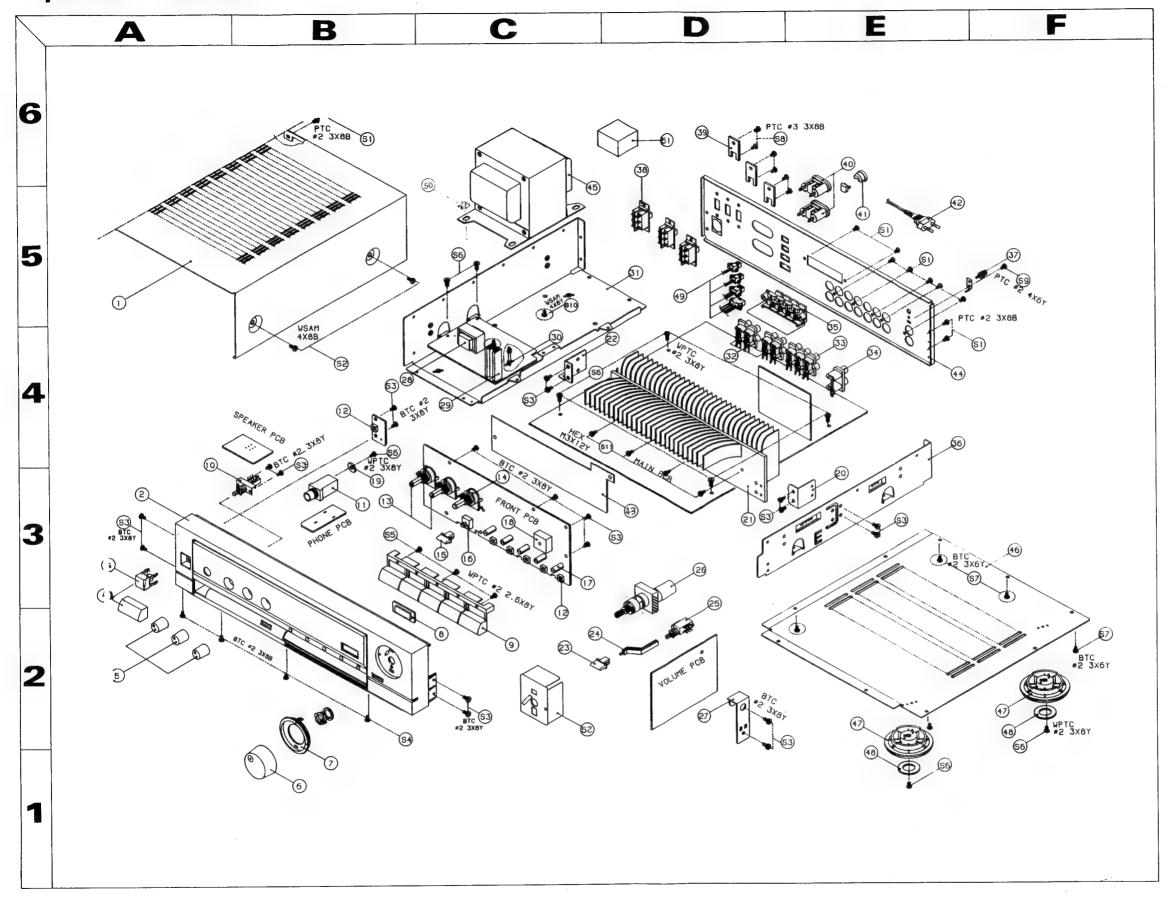
### E-VERSION



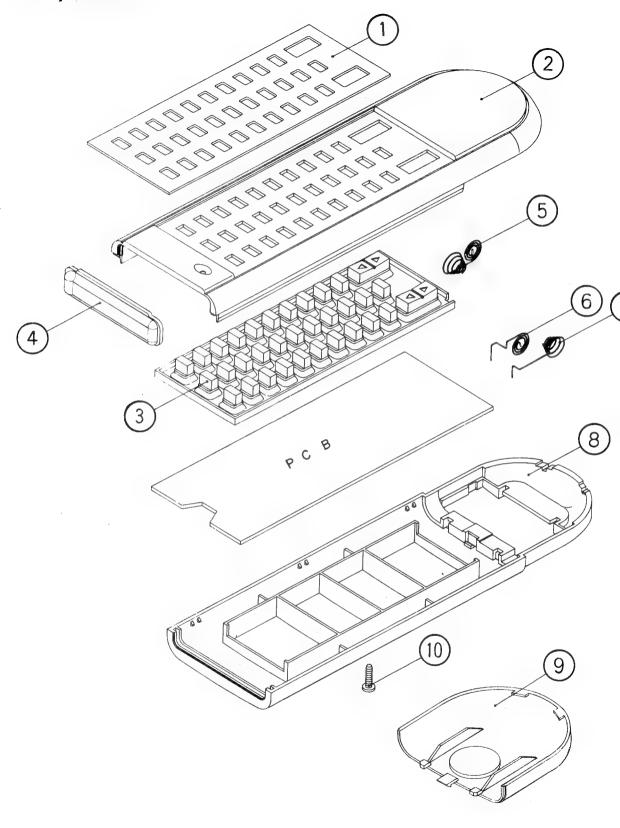
# Exploded View(I)



Model No.: AI-2110R



### Ass'y-Remocon



### Electrical Parts List

PRODUCT SAFETY NOTICE: Products marked with  $\triangle$  have special characteristicsimportant to safety. If yo replace any of these components, carefully readthe product safety notice of this manual. Don't degraded the safety of the product through improper servicing. Resistors & Capacitors tolerance, D:  $\pm 0.5\%$ , J:  $\pm 5\%$ , K:  $\pm 10\%$ , M:  $\pm 20\%$ , Z:  $\pm 80\%$ ,  $\pm -20\%$ .

Capacitors           C101L/R C102L/R C102L/R C103L/R C103L/R C103L/R C104L/R C104L/R C104L/R C104L/R C105CJC/R C105CJC/R	Rema	Position				escription	L	Part No.	Ref. No
C101L/R         3579820030         Ceramic         82pF         50V         J         1A           C102L/R         3579680030         Ceramic         68pF         50V         J         1A           C103L/R         3479247971         Electric SA         4.7μF         50V         M         1A           C104L/R         3579100130         Ceramic         10pF         50V         J         1A           C106L/R         3409210131         Electric SA         10upF         50V         J         1A           C107L/R         3679182120         Mylar         0.0018μF         100V         J         1A           C109L/R         3479268871         Electric SA         0.68μF         50V         M         1A           C110L/R         3675562120         Mylar         0.0056μF         50V         J         1A           C111/C112         3479247041         Electric SA         47μF         50V         M         1A           C201L/R         3579101130         Ceramic         100pF         50V         J         1A           C501L/R         3479247971         Electric SA         4.7μF         50V         M         1B           C501L/R						0000	002120		
C102L/R   3579680030   Ceramic   68pF   50V   J   1A   1A   C103L/R   357910030   Ceramic   10pF   50V   J   1A   C105L/R   3579101130   Ceramic   10pF   50V   J   1A   C105L/R   3679182120   Mylar   0.0018μF   100V   J   1A   C107L/R   3679182120   Mylar   0.0056μF   100V   J   1A   C109L/R   3479268871   Electric SA   0.68μF   50V   M   1A   C110L/R   3675562120   Mylar   0.0056μF   50V   J   1A   C110L/R   3675562120   Mylar   0.0056μF   50V   J   1A   C110L/R   3675562120   Mylar   0.0056μF   50V   J   1A   C111/C112   3479247041   Electric SA   47μF   50V   M   1A   C201L/R   3579101130   Ceramic   0.047μF   50V   J   1A   C201L/R   3579101130   Ceramic   100pF   50V   J   1A   C501L/R   3579473030   Ceramic   82pF   50V   J   2B/1B   C503L/R   357910030   Ceramic   100pF   50V   J   2B/1B   C504L/R   357910030   Ceramic   100pF   50V   J   2B/1B   C506L/R   357910030   Ceramic   100pF   50V   J   2B/1B   C508L/R   357910130   Ceramic   100pF   50V   J   2B/1B   C506L/R   357910130   Ceramic   100pF   50V   J   2B/1B   C506L/R   357910130   Ceramic   100pF   50V   J   2B/1B   C506L/R   3579473030   Ceramic   100pF   50V   J   2B/1B   C506L/R   3579473030   Ceramic   100pF   50V   J   2B/1B   C508L/R   3579473030   Ceramic   100pF   50V   J   2B/1B   C506L/R   3479222031   Electric SA   22μF   50V   J   2B/1B   C516L/R   3479222031   Electric SA   22μF   16V   M   2B/1B   C516L/R   347922031   Electric SA   22μF   50V   M   2B/1B   C516L/R   347922031   Electric SA   22μF   50V   M   2B/1B   C516L/R   347922031   Electric SA   22μF		· · · · · · · · · · · · · · · · · · ·					,	r	Capacitors
C103L/R							Ceramic		
C104L/R         3579100030         Ceramic         10pF         50V         J         1A           C105L/R         3579101130         Ceramic         100pF         50V         J         1A           C106L/R         3409210131         Electric SA         100μF         16V         M         1A           C107L/R         3679182120         Mylar         0.0018μF         100V         J         1A           C109L/R         3479268871         Electric SA         0.88μF         50V         M         1A           C110L/R         3675562120         Mylar         0.0056μF         50V         J         1A           C111/C112         3479247041         Electric SA         47μF         50V         J         1A           C111/R         3579101130         Ceramic         100pF         50V         J         1A           C201L/R         3579101130         Ceramic         100pF         50V         J         1A           C501L/R         3479247971         Electric SA         4.7μF         50V         M         1B           C501L/R         3579101030         Ceramic         100pF         50V         J         2B/1B           C504L/R		1A	J				(		C102L/R
C105L/R         3579101130         Ceramic         100pF         50V         J         1A           C106L/R         3409210131         Electric SA         100μF         16V         M         1A           C107L/R         3679182120         Mylar         0.0018μF         100V         J         1A           C108L/R         3679562120         Mylar         0.0056μF         50V         M         1A           C110L/R         3675562120         Mylar         0.0056μF         50V         J         1A           C111/C112         3479247041         Electric SA         47μF         50V         J         1A           C111/C112         3479247971         Electric SA         4.7μF         50V         J         1A           C201L/R         3579101130         Ceramic         100pF         50V         J         1A           C501L/R         3479247971         Electric SA         4.7μF         50V         M         1B           C501L/R         3579101030         Ceramic         100pF         50V         J         2B/1B           C504L/R         357910030         Ceramic         100pF         50V         J         2B/1B           C506L/R		1A	M	50V		4.7μF	Electric SA	3479247971	C103L/R
C106L/R		1A	J	50V		10pF	Ceramic	3579100030	C104L/R
C106L/R		1A	J	50V		100pF	Ceramic	3579101130	C105L/R
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		1A	- 1				Electric SA	3409210131	C106L/R
C108L/R						,			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							,	ł.	
C110L/R C111/C112         3675562120 3479247041         Mylar Electric SA         0.0056μF 47μF         50V         J         1A           C113         3579101130         Ceramic         0.047μF         50V         J         1A           C201L/R -C210L/R         3579101130         Ceramic         100pF         50V         J         1A           C488L/R         3479247971         Electric SA         4.7μF         50V         M         1B           C501L/R C502L/R         3479247971         Electric SA         4.7μF         50V         M         2B/1B           C503L/R C503L/R         3579820030         Ceramic         82pF         50V         J         2B/1B           C505L/R 3579100030         Ceramic         10pF         50V         J         2B/1B           C506L/R 3579100030         Ceramic         10pF         50V         J         2B/1B           C507L/R 3479222061         3479222061         Electric SA         22μF         35V         M         2B/1B           C508L/R 5051L/R         3679473120         Ceramic         0.047μF         50V         J         2B/1B           C512 C513/C514         •         See Headphone Board         See Speaker Board         See Speaker Board			- 1				,		
C111/C112   3479247041   Electric SA   47μF   50V   M   1A									
C113   3579101130   Ceramic   0.047μF   50V   J   1A							1	ļ	
C201L/R -C210L/R         3579101130         Ceramic         100pF         50V         J         1A           C488L/R         3479247971         Electric SA         4.7μF         50V         M         1B           C501L/R         3479247971         Electric SA         4.7μF         50V         M         2B/1B           C502L/R         3579820030         Ceramic         82pF         50V         J         2B/1B           C503L/R         3579101030         Ceramic         100pF         50V         J         2B/1B           C505L/R         3579100030         Ceramic         10pF         50V         J         2B/1B           C507L/R         3479222061         Ceramic         100pF         50V         J         2B/1B           C508L/R         3579473030         Ceramic         100pF         50V         J         2B/1B           C509-C510         Ceramic         0.047μF         50V         J         2B/1B           C511L/R         3679473120         Mylar         0.047μF         50V         J         2B/1B           C512         •         See Headphone Board         See Speaker Board         See Speaker Board         See Speaker Board         See Speaker Board							ļ.		
C488L/R         3479247971         Electric SA         4.7μF         50V         M         1B           C501L/R         3479247971         Electric SA         4.7μF         50V         M         2B/1B           C502L/R         3579820030         Ceramic         82pF         50V         J         2B/1B           C503L/R         3579101030         Ceramic         100pF         50V         J         2B/1B           C505L/R         3579100030         Ceramic         10pF         50V         J         2B/1B           C506L/R         3579101030         Ceramic         10pF         50V         J         2B/1B           C507L/R         3479222061         Electric SA         22μF         35V         M         2B/1B           C508L/R         3579473030         Ceramic         0.047μF         50V         J         2B/1B           C509-C510         C         Not used!         Not used!         Not used!         Not used!         See Headphone Board         See Speaker Board         Electric SA         22μF         16V         M         2B/1B           C516L/R         3479222031         Electric SA         22μF         16V         M         2B/1B           C516L/		1A	J	50V		0.04/μF	Ceramic	35/9101130	C113
C501L/R         3479247971         Electric SA         4.7μF         50V         M         2B/1B           C502L/R         3579820030         Ceramic         82pF         50V         J         2B/1B           C503L/R         3579101030         Ceramic         100pF         50V         J         2B/1B           C505L/R         3579100030         Ceramic         10pF         50V         J         2B/1B           C506L/R         3579101030         Ceramic         10pF         50V         J         2B/1B           C507L/R         3479222061         Ceramic         10pF         50V         J         2B/1B           C508L/R         3579473030         Ceramic         0.047μF         50V         J         2B/1B           C509-C510         Ceramic         0.047μF         50V         J         2B/1B           C511L/R         3679473120         Mylar         0.047μF         100V         J         2B           C512         See Headphone Board         See Speaker Board         Electric SA         22μF         16V         M         2B/1B           C516L/R         3479222031         Electric SA         22μF         16V         M         2B/1B <tr< td=""><td></td><td>1A</td><td>J</td><td>50V</td><td></td><td>100pF</td><td>Ceramic</td><td>3579101130</td><td></td></tr<>		1A	J	50V		100pF	Ceramic	3579101130	
C502L/R   3579820030   Ceramic   82pF   50V   J   2B/1B   C503L/R   3579101030   Ceramic   100pF   50V   J   2B/1B   C504L/R   3579473030   Ceramic   100pF   50V   J   2B/1B   C505L/R   3579100030   Ceramic   10pF   50V   J   2B/1B   C506L/R   3579101030   Ceramic   100pF   50V   J   2B/1B   C507L/R   3479222061   Electric SA   22μF   35V   M   2B/1B   C508L/R   3579473030   Ceramic   0.047μF   50V   J   2B/1B   Not used ! Not used ! Not used ! See Headphone Board   See Speaker Board   Electric SA   22μF   16V   M   2B/1B   C516L/R   3479222031   Electric SA   22μF   16V   M   2B/1B   C516L/R   3479222031   Electric SA   22μF   16V   M   2B/1B   C517   3409210171   Electric SA   10μF   50V   M   2B   Electric SA   24πF   50V   M   24   Electric SA   24πF		1B	М	<b>5</b> 0V		4.7μF	Electric SA	3479247971	C488L/R
C502L/R   3579820030   Ceramic   82pF   50V J   2B/1B   C503L/R   3579101030   Ceramic   100pF   50V J   2B/1B   C504L/R   3579473030   Ceramic   100pF   50V J   2B/1B   C505L/R   3579100030   Ceramic   10pF   50V J   2B/1B   C506L/R   3579101030   Ceramic   100pF   50V J   2B/1B   C507L/R   3479222061   Electric SA   22μF   35V M   2B/1B   C508L/R   3579473030   Ceramic   0.047μF   50V J   2B/1B   Not used ! Not used ! Not used ! See Headphone Board   See Speaker Board   Electric SA   22μF   16V M   2B/1B   C516L/R   3479222031   Electric SA   22μF   16V M   2B/1B   C516L/R   3479222031   Electric SA   22μF   16V M   2B/1B   C517   3409210171   Electric SA   10μF   50V M   2B   Electric SA   10μF   50V M   2B   C601/C602   3479210071   Electric SA   10μF   50V M   2A   Elec		2B/1B	М	50V		4.7μF	Electric SA	3479247971	C501L/R
C503L/R   3579101030   Ceramic   100pF   50V J   2B/1B   C504L/R   3579473030   Ceramic   10pF   50V J   2B/1B   C505L/R   3579100030   Ceramic   10pF   50V J   2B/1B   C506L/R   3579101030   Ceramic   10pF   50V J   2B/1B   C507L/R   3479222061   Electric SA   22μF   35V M   2B/1B   C508L/R   3579473030   Ceramic   0.047μF   50V J   2B/1B   Not used ! Not used ! Not used ! See Headphone Board   C513/C514   C513/C514   C513/C514   Electric SA   22μF   16V M   2B/1B   C516L/R   3479222031   Electric SA   22μF   16V M   2B/1B   C516L/R   3479222031   Electric SA   22μF   16V M   2B/1B   C517   3409210171   Electric SA   10μF   50V M   2B   C601/C602   3479210071   Electric SA   10μF   50V M   2A   C601/C602   3479210071   Electric SA   10μF   50V M   2A   C601/C602   C505L/R   C601/C602		2B/1B	- 1	50V			Ceramic	3579820030	C502L/R
C504L/R   3579473030   Ceramic   0.047μF   50V   J   2B/1B   C505L/R   3579100030   Ceramic   10pF   50V   J   2B/1B   C506L/R   3579101030   Ceramic   100pF   50V   J   2B/1B   C507L/R   3479222061   Electric SA   22μF   35V   M   2B/1B   C509-C510   Not used !   Not used !   See Headphone Board   See Speaker Board   C513/C514   See Speaker Board   See Speaker Board   C515L/R   3479222031   Electric SA   22μF   16V   M   2B/1B   C516L/R   3479222031   Electric SA   22μF   16V   M   2B/1B   C517   3409210171   Electric SA   10μF   50V   M   2A   C601/C602   3479210071   Electric SA   10μF   50V   M   2A   C601/C602   3479210071   Electric SA   10μF   50V   M   2A   C601/C602   C515L/R   C601/C602   3479210071   Electric SA   10μF   50V   M   2A   C601/C602   C6		2B/1B	- 1				Ceramic	3579101030	C503L/R
C505L/R   3579100030   Ceramic   10pF   50V   J   2B/1B   C506L/R   3579101030   Ceramic   100pF   50V   J   2B/1B   C507L/R   3479222061   Electric SA   22μF   35V   M   2B/1B   C509-C510   Not used!   Not used!   See Headphone Board   See Speaker Board   C513/C514   See Speaker Board   See Speaker Board   C515L/R   3479222031   Electric SA   22μF   16V   M   2B/1B   C516L/R   3479222031   Electric SA   22μF   16V   M   2B/1B   C517   3409210171   Electric SA   10μF   50V   M   2A   C601/C602   3479210071   Electric SA   10μF   50V   M   2A   C601/C602   3479210071   Electric SA   10μF   50V   M   2A   C601/C602   C51003679100303   C611/C602			- 1						C504L/R
C506L/R   3579101030   Ceramic   100pF   50V   J   2B/1B   C507L/R   3479222061   Electric SA   22μF   35V   M   2B/1B   C508L/R   3579473030   Ceramic   0.047μF   50V   J   2B/1B   C509-C510   Not used !   Not used !   See Headphone Board   See Speaker Board   C513/C514   See Speaker Board   See Speaker Board   C515L/R   3479222031   Electric SA   22μF   16V   M   2B/1B   C516L/R   3479222031   Electric SA   22μF   16V   M   2B/1B   C517   3409210171   Electric SA   10μF   50V   M   2B   C601/C602   3479210071   Electric SA   10μF   50V   M   2A   C601/C602   3479210071   Electric SA   10μF   50V   M   2A   C601/C602   C508L/R   C508L/R   C509L/R   C509L		I							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			- 1						
C508L/R   3579473030   Ceramic   0.047μF   50V   J   2B/1B   Not used !			- 5						
Not used !   Not used !   Not used !   See Headphone Board   See Speaker Board   Se			-						
C511L/R   3679473120   Mylar   0.047 <sub>μ</sub> F   100V   J   2B   See Headphone Board   See Speaker Board   C515L/R   3479222031   Electric SA   22 <sub>μ</sub> F   16V   M   2B/1B   C517   3409210171   Electric SA   100 <sub>μ</sub> F   50V   M   2B   C601/C602   3479210071   Electric SA   10 <sub>μ</sub> F   50V   M   2A   2A		2D/1D	٦	304		0.047μΓ		3073473030	
		20	,	0017		0.047 F	1	2070472120	
		ZR	J	UUV	ı			30/94/3120	
								•	
		I						•	
C517 3409210171 Electric SA 100μF 50V M 2B C601/C602 3479210071 Electric SA 10μF 50V M 2A			M			,			
C601/C602 3479210071 Electric SA 10μF 50V M 2A		2B/1B	M			,			
10,000		2B	M	50V		100μF	Electric SA	3409210171	C517
C603/C604 3479222071 Electric SA 22μF 50 / M 1B		2A	М	50V		10μF	Electric SA	3479210071	C601/C602
		1B	M	50 V		22μF	Electric SA	3479222071	C603/C604
C703/C704 3609224120 Mylar 0.22μF 100V M 2A D	D	2A	М	00V	1	0.22μF	Mylar	3609224120	C703/C704
C705/C706 3419547225 Electric SA 4700µF 50V M 2A		2A	M	50V		4700µF	Electric SA	3419547225	C705/C706
C707/C708 3409247161 Electric SA 470µF 35V M 2A		2A	М	35V	,	470µF	Electric SA	3409247161	C707/C708
C709/C710 3479247041 Electric SA 47μF 25V M 2A		2A	М				Electric SA	3479247041	C709/C710
C714/C715 3609224120 Mylar 0.22 <sub>\(\mu\)</sub> F 100V J 2A D	D	2A	J	00V	1	0.22μF	Mylar	3609224120	C714/C715
Connectors					_		***********	;	Connectors
CNT1/CNT2 4428517610 Plug 3P 2B/1B		2B/1B							
CNT3/CNT5 4428517710 Plug 4P 1B		1B						4428517710	CNT3/CNT5
CNT8 4358502121 Ass'y 2P To 1B		1B	-				Ass'y 2P To	4358502121	CNT8
Volume Board 120mm						d 120mm			
CNT11 4428517510 Plug 2P 2B		2B					Plug 2P	4428517510	CNT11
CNT13 4428522610 Plug 6P 2B			- 1						1
CNT15/CNT17 4428522410 Plug 4P 2B/2A			- 1						
CNT20 4358503160 Ass'y 3P To 2A			- 1				v		
Function Board 160mm		٠				ard 160mm		1000000100	5.1120

Ref. No	Part No.	Description	Position
CNT88	4428517510	Plug 2P	2A
Coils			<u> </u>
L101L/R	2648601470	Inductor 50µH	1A
L501L/R	2648001010	Inductor 0.5mH	2B
Diodes			
	2050500112	7 D7 200M M24100	an.
D503 (D503)	2058599112 (2058599115)	Zener, DZ 20BM AI2110R only Zener, DZ 27BM for AI2115R only	2B 2B
D601-D603	2058106100	1N4002 Rectifier	2A
D604	2058599109	Zener, DZ 15BH for Al2110R only	2A
D604)	(2058599113)	Zener, DZ 24BM for Ai2115R only	2A
D701-D704	2058100105	1N5402 Rectifier	2A
D705/D708	2058106100	1N4002 Rectifier	2A
D714/D715	2058599109	Zener, DZ 15BH	2A
Fuses			
F501L/R	5508203030	NB 5A 250V, 5.1×20mm	
F501L/R)	(5508403035)	FB 5A 250V, 5.1 × 20mm	:
1 00 12, 11,	(0000)	15 07 (2007) 011 / 2011111	
ICs			
IC101	2168020106	NJM 2068DD	1A
IC702	2168601110	GD7806	2A
Resistors: All	resisitors are 1/4V oxide and C. is ce	I V Metal film ±5% tolerance, unless ment type.	otherwis
R101L/R	3069272270	2.7kΩ	1A
R102L/R	3069272270	91kΩ	1A 1A
R103L/R	3069913270	91kΩ	1A
R104L/R	3069911270	910Ω	1A
R105L/R	3069564270	560kΩ	1A
R106L/R	3069433270	43kΩ	1A
R107L/R	3069471270	470Ω	1A
R108L/R	3069104270	100kΩ	1A
R109/R110			
11100711110	3069101270	100Ω	1A
	3069101270		
R201L/R	3069101270 3069121270	120Ω	1A
R201L/R R202L/R	3069101270		
R201L/R R202L/R R203L/R	3069101270 3069121270 3069102270	120Ω 1kΩ	1A 1A
R201L/R R202L/R R203L/R R204L/R	3069101270 3069121270 3069102270 3069473270	120Ω 1kΩ 47kΩ	1A 1A 1A
R201L/R R202L/R R203L/R R204L/R R205L/R R206L/R	3069101270 3069121270 3069102270 3069473270 3069121270 3069102270 3069473270	120Ω 1kΩ 47kΩ 120Ω 1kΩ 47kΩ	1A 1A 1A 1A 1A
R201L/R R202L/R R203L/R R204L/R R205L/R R206L/R R207L/R	3069101270 3069121270 3069102270 3069473270 3069121270 3069473270 3069473270 3069121270	120Ω 1kΩ 47kΩ 120Ω 1kΩ 47kΩ 120Ω	1A 1A 1A 1A 1A 1A
R201L/R R202L/R R203L/R R204L/R R205L/R R206L/R R207L/R R207L/R	3069101270 3069121270 3069102270 3069473270 3069121270 3069473270 3069121270 3069102270	120Ω 1kΩ 47kΩ 120Ω 1kΩ 47kΩ 120Ω 1kΩ	1A 1A 1A 1A 1A 1A
R201L/R R202L/R R203L/R R204L/R R205L/R R206L/R R207L/R R208L/R R209L/R	3069101270 3069121270 3069102270 3069473270 3069121270 3069473270 3069121270 3069102270 3069473270	120Ω 1kΩ 47kΩ 120Ω 1kΩ 47kΩ 120Ω 1kΩ 47kΩ	1A 1A 1A 1A 1A 1A 1A 1A
R201L/R R202L/R R203L/R R204L/R R205L/R R206L/R R207L/R R208L/R R209L/R R210L/R	3069101270 3069121270 3069102270 3069473270 3069121270 3069473270 3069121270 3069473270 3069473270 3069121270	120Ω 1kΩ 47kΩ 120Ω 1kΩ 47kΩ 120Ω 1kΩ 47kΩ 120Ω	1A 1A 1A 1A 1A 1A 1A 1A
R201L/R R202L/R R203L/R R204L/R R205L/R R206L/R R207L/R R208L/R R209L/R R210L/R R211L/R	3069101270 3069121270 3069102270 3069473270 3069121270 3069121270 3069121270 3069473270 3069473270 3069121270 3069102270	120Ω 1kΩ 47kΩ 120Ω 1kΩ 47kΩ 120Ω 1kΩ 47kΩ 120Ω 1kΩ	1A 1A 1A 1A 1A 1A 1A 1A 1A
R201L/R R202L/R R203L/R R204L/R R205L/R R206L/R R207L/R	3069101270 3069121270 3069102270 3069473270 3069121270 3069473270 3069121270 3069473270 3069473270 3069121270	120Ω 1kΩ 47kΩ 120Ω 1kΩ 47kΩ 120Ω 1kΩ 47kΩ 120Ω	1A 1A 1A 1A 1A 1A 1A 1A
R201L/R R202L/R R203L/R R204L/R R205L/R R206L/R R207L/R R208L/R R209L/R R210L/R R211L/R	3069101270 3069121270 3069102270 3069473270 3069121270 3069473270 3069121270 3069473270 3069121270 3069121270 3069473270 3069473270	1200 1k0 47k0 1200 1k0 47k0 1200 1k0 47k0 1200 1k0 47k0 1200 1k0	1A 1A 1A 1A 1A 1A 1A 1A 1A 1A

	Ref. No	Part No.	Description	Position	Remark
	R503L/R	3069334270	330kΩ	2B/1B	·
$\triangle$	R504L/R	3069122270	1.2kΩ	2B/1B	
	R505L/R	3069103270	10kΩ	2B/1B	
$\overline{\wedge}$	R506L/R	3069182270	1.8kΩ	2B/1B	
$\overline{\wedge}$	R507L/R	3069123270	12kΩ	2B/1B	
	R508L/R	3069392270	3.9kΩ	2B/1B	
	R509L/R	3069562270	5.6kΩ	2B/1B	
$\triangle$	R510L/R	3069152270	1.5kΩ	2B/1B	
$\overline{\wedge}$	R511L/R	3069152270	1.5kΩ	2B/1B	
$\triangle$	R512L/R	3069104270	100kΩ	2B/1B	
$\triangle$	R513L/R	3069271270	270Ω	2B/1B	
$\Delta$	R514L/R	3069278686	C, 0.27Ω 3W	2B/1B	
لاسنيك	R515L/R	3039100472	M.O. 100 1W	2B/10	
	R516L/R	3039220472	M.O, 22Ω 1W	2B	
	R517L/R	3039220472	M.O, 220 1W	2B	
	R518L/R	3039221572	M.O, 220Ω 1W	2B	
			1 '		
	R519/R520	303939242	M.O, 3.9kΩ 1W	2B/1B	
	R601	3069332270	3.3kΩ	2A	
	R602	3069823270	82kΩ	2A	
	R603	3069103270	10kΩ	2A	
	R604	3069470270	47Ω	2A	
	R605	3069103270	10kΩ	2A	
	R606L/R	3069332270	3.3kΩ	18	
	R607	3069333270	33kΩ	1B	
	R608	3069224270	220kΩ	18	
	R701/R702	3039391472	M.O, 390Ω 1W	2A	
	R788	3039101472	M.O, 100Ω 1W	2A	
	Transistors		I		
	Q501L/R	2008613115	PNP µPA 75HA	2B/1B	
	Q501L/R		NPN KTC2229Y	2B/1B	
	Q502L/R Q503L/R	2008606107			
	(Q503L/R)	2008609101	NPN MPS A05 for AI2110R only NPN MPS A06 for AI2115R only	2B/1B	
	Q504L/R	(2008609102)	NPN KTC2235Y for AI2110R only	2B/1B	
		2028406120		2B/1B	
	(Q504L/R)	(2028607113)	NPN KTC3421 for AI2115R only	2B/1B	
	Q505L/R	2028106107	PNP KTA965Y for AI2110R only	2B/1B	
- 1	(Q505L/R)	(2028207106)	NPN 2SC3855 for Al2115R only	2B/1B	
$\triangle$	Q506L/R	2028416107	NPN 2SC3854	2B/1B	
$\triangle$	Q507L/R	2028116104	PNP 2SA1490 for AI2110R only	2B/1B	
	(Q507L/R)	(2028116103)	PNP 2SA1491 for AI2115R only	2B/1B	
	Q601	2200206105	PNP KTA1015Y	2A	
4	Q602	2008609101	NPN MPS A05	1B	
$\Delta$	(Q602)	(2008609102)	NPN MPS A06	1B	
$\Delta$	Q603	2008609101	NPN MPS A05	1B	
- 1	(Q603)	2008609102	NPN MPS A06	18	
	Q604	(2008609102)	NPN 2SD1302S for AI2110R only	1B	
	Q812	2208206105	PNP KTA1015Y for AI2115R only	2B	
	Others				
	X-FOR1	2828073901 or	Main Transformer for Al2110R only		Α
	•	2828073907	120V 50Hz, Alternative		l.,
	(X-FOR1)	2828074001 or	Main Transformer for Al2110R only		В
	17. I VIIII	2828074007	120V/220V 60/50Hz, Alternative		
	(X-FOR1)	2828074101 or	Main Transformer for Al2110R only		C,D,F
	1002110111	2020074101 01	man nansionnel for Alzhort Offiy		U,U,I"
		2020074107	220\/ EOUs Alternation		l I
	(X-FOR1)	2828074107 2828074201 or	220V 50Hz, Alternative  Main Transformer for Al2110R only		E

Ref. No	Part No.	Description	Posit
(X-FOR1)	2828073001 or 2828073007	Main Transformer for AI2110R only 110V/220V 60Hz, Alter native	
X-FOR1 (X-FOR1) (X-FOR1)	2828073301 (2828073101) (2828073201)	Main Transformer for AI2115R only Main Transformer for AI2115R only Main Transformer for AI2115R only	

Front	Board 4	4002120010
Capacitors	3	
C401/C402		See Volume Board
C403L/R	3679683120	Mylar 0.068μF 100V J
C404L/R	3679153120	] Mylar 0.015μF 100V J
C405L/R	3579309030	Ceramic 3pF 50V J
C406L/R	3679223120	84 L. 0.000 F 400V 1
C407L/R	3679472120	Mylar 0.022μF 100V J
C490	3579102130	Ceramic 1000pF 50V J
C801	3479210071	Electric SA 10µF 50V M
C802	3479210971	Electric SA 1 <sub>µ</sub> F 50V M
C803		See Stand-by Board
C804/C805	3579470130	Ceramic 47pF 50V J
C806	3439147312	Ceramic
C890	3479222031	Electric SA 22μF 16V M
Connector	rs	
CNT1	4358503122	Ass'y 3P To Main Board 120mm
CNT2	4358503181	Ass'y 3P To Main Board 180mm
CNT3	4358504201	Ass'y 4P To Main Board 200mm
CNT4	4358504260	Ass'y 4P To Volume Board 260mm
UI 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7330304200	nas y TE TO VOIGINE DUGIN 20011111
CNT6	4358503351	Ass'y 3P To Function Board
CNT7	4358504160	Ass'y 4P To Main Board 160mm
CNT9	4358502405	Ass'y 2P To Back Chassis 400mm
CNT10	4358503160	Ass'y 3P To Stand By Board
OHIIV	TOUCOU 100	160mm
CNT11	4358502121	Ass'y 2P To Main Board 120mm
CNT12	4358509400	Ass'y 9P To Back Chassis 400mm
SLT90	4119102106	Wafer 2P
SLT90	(4428525060)	Wire slat 2P
Diodes	<del></del>	
D802/D805	2058306101	1N4148 Switching
LED802	2308060304	KIG 226 Green
-LED805	2308010304	KIG 226 Green
ED806	2308060105	KLR 226E Green
C801	2138309126	IC, DWP-103 CPU
IC802	2138009115	IC, MC14094
	210000113	15, 110 1 100,
Resistors		
R401-R403		See Volume Board
R404L/R	3069224270	220kΩ

Ref. No	Part No.	Description	Position	Remark
R405L/R	3069332270	3.3kΩ		
R406L/R	3069153270	15kΩ		
R407L/R	3069473270	47kΩ		
R408L/R	3069154270	150kΩ		
R409L/R	3069393270	39kΩ		
R410L/R	3069821270	820Ω		
R411L/R	3069152270	1.5kΩ		
B004	0000400070	40.0		
R801	3069103270	10kΩ		
R802	3069102270	1kΩ		
R803	3069104270	100kΩ		
R804	3069473270	47kΩ		
R805	•	See Stand-by Board		
R806	3069472270	4.7kΩ		
R807	3069103270	10kΩ		
R808	3069472270	4.7kΩ		
R809	3069202270	2kΩ		
R810	3069103270	10kΩ		
R811	3069473270	47kΩ		
R812/R813	3069103270	10kΩ		
R814-R816	3069474270	470kΩ		
R817	3069104270	100kΩ		
R818	3069331270	330Ω		
R819	3069106270	10ΜΩ		
R820	3069103270	10κΩ		
R821	3069472270	4.7kΩ		
R822	3069103270	10kΩ		
R823/R825				
	3069332270	3.3kΩ		
R824 .	3069202270	2kΩ		
R826/R828	3069202270	2kΩ		
R827/R829	3069332270	3.3kΩ		
R830/R832	3069202270	2kΩ		
R831	3069332270	3.3kΩ		
R891-R893	3069224270	220kΩ		
R894-R896	3069105270	1ΜΩ		
R897	3069224270	220kΩ		
Transistor	s			
Q801-Q811	2208606104	NPN KTC1815Y		
Others				
IR801	2138099103	Infrared Receiver IL-007		
X-TAL801	3908101140			
A-1 ALOU1	3308101140	Resonator 4MHz		

ST-by SW Board 4002120030							
Connect	ors						
SLT90 (SLT90)	4428525060 (4119102105)	0.000					

Headphone Board 4002120020								
Capacitor							·	
C512L/R	3579102130	Ceramic	1000pF	50V	J		D	

Part No.	Description	Position	Rem
rs			
4428525080	Slat Wire 4P		
(4119104156)	Wafer 4P		
_	4428525080	'S	\$ 4428525080 Slat Wire 4P

Function Board 4002120100							
Capacitor							
C301 C302/C303	3479210971 3479247041	Electric SA Electric SA			M M		
Connecto	rs	1					Ш.
CNT6 CNT20 ·	4428519310 4428519310 4428525520 4428525510 4428525510	Plug 3P Plug 3P Plug 3P Plug 9P Plug 9P					
Diode		1					
D301	2058306101	1N4148					
IC							
IC301	2168017132	LC7821					
Resistors							
R301 R302/R303	3069104270 3069101270	100kΩ 100Ω					

Stand	By Bo	ard 40	0212	012	0	
Capacitor						
C701/C702	3549472407	Ceramic	0.0047μF	400V	K	
C711	3409247131	Electric SA				
C712 C713	3479247031 3479210071	Electric SA Electric SA		16V 50V	M M	
C803	3479210971	Electric SA	1μF	50V	М	
Connector		i	<del></del>			 1
CNT10	4428517710	Plug 4P From	m Front Bo	ard		
Diodes		·				 <b></b>
D709-D713	2058106100	1N4002 Rec	tifier			
Fuses		•				
F701 F702 (F701)	5508202921 5508302435 5508302435	NB 4A 125V TL 2A 250V TL 2A 250V	5.1 × 20mm	1		A B C,D,F

Ref. No	Part No.	Description	Position	Remark
IC				
IC701	2168601101	GD 7805		
Resistors		L		l
R703/R704 R805	.3039100472 3069332270	M.Ο 10Ω 1W 3.3kΩ		
Q802	2008609101	TR, NPN MPS A05		
Others		1	L	
X-FOR2	2828065701 or 2828066207	Stand By Transformer (alterative)		Α
(X-FOR2)	2828073401 or 2828073407	Stand By Transformer (alterative)		В
(X-FOR2)	2828069801 or 2828069807	Stand By Transformer (alterative)		C,D,F
(X-FOR2)	2828069901 or 2828069907	Stand By Transformer (alterative)		E
(X-FOR2)	2828072601 or 2828072607	Stand By Transformer (alterative)	2A	Domestic
RLY7	5528001250	Relay, VS12Ms-NR-UL2		

Volume Board 4002120110					
Capacitor					
C401L/R C402L/R	3619171110 3609563120	Poly 170pF 50V J Mylar 0.056μF 100V J			
C807-C809	3409210131	Electric SA 100µF 16V M			
Connector	\$				
CNT4 CNT5 CNT7 CNT8 CNT70 IC803	4428519410 4358504101 4428519410 4428519210 4358502101 2168022107 2308060105	Plug 4P Ass'y 4P To Main Board 100mm Plug 4P Plug 2P Ass'Y 2P To Volume Board 100mm IC, BA6208 LED, KLR226E ,Red			
Resistors					
R401L/R R402L/R R403L/R	3069154270 3069562270 3069102270	150kΩ 5.6kΩ 1kΩ			

Speaker Board 4002120130								
Capacito	r							
C513L/R	3579223030	Ceramic	0.022μF	50V J	D			
C514L/R	3579473030	Ceramic	0.047μF	50V J	D			

Ref. No	Part No.	Description	Position
Connecto	rs		
CNT14 SLT17	4428522810 4119104126	Plug 8P From Speaker SW Board Wire Slat 4P To Main Board 120mm	
SLT17	4428523080	Wafer 4P	

150mm		2014			
Connectors					
SLT13	4119106156				
(SLT13)	(4428525100)	Wafer 6P			
SLT14L/R	4119104406	Wire Slat 4P To Speaker B'D 400mm			
(SLT14L/R)	(4428525080)	Wafer 4P			

Rem	ocon Bo	oard 4005212100
Capacito	rs	
C1/C2 C3	3509101130 3409247022	Ceramic 100pF 50V J Electric SA 47μF 10V M
Diodes		
D1 D2	2308220127 2408001100	LED, SLR34URC EL240KEC
Resistor	3	
R1-R4 R5 R6 R7	3009224973 3009102970 3009339973 3009102973	220kΩ 1kΩ 3.3Ω 1kΩ
Others		
Q1	2008610102	TR, NPN 2SD1302S, Switching
X-TAL1	3938001001	Ceramic Resonator CSB455E

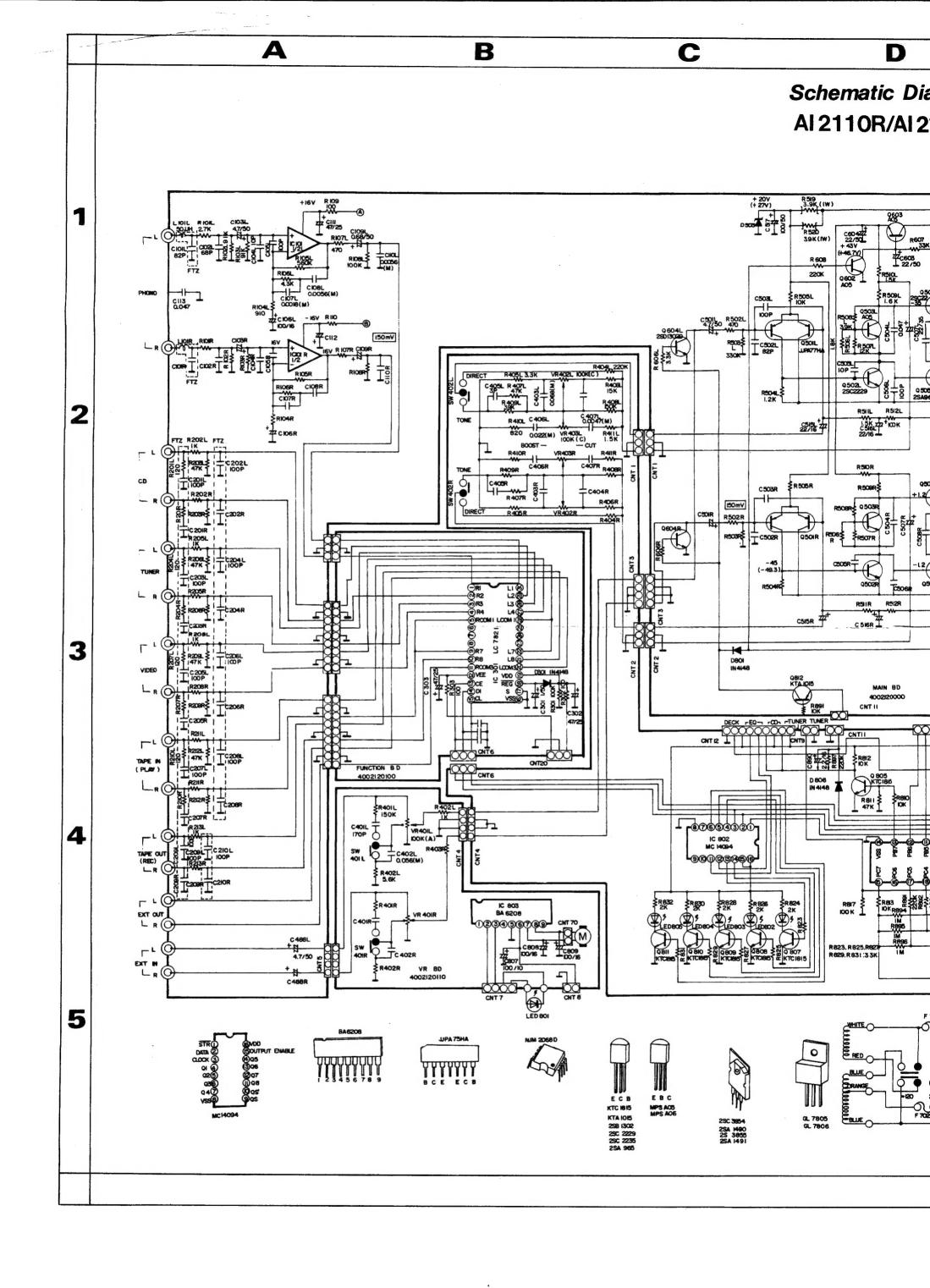
### Mechanical Parts List

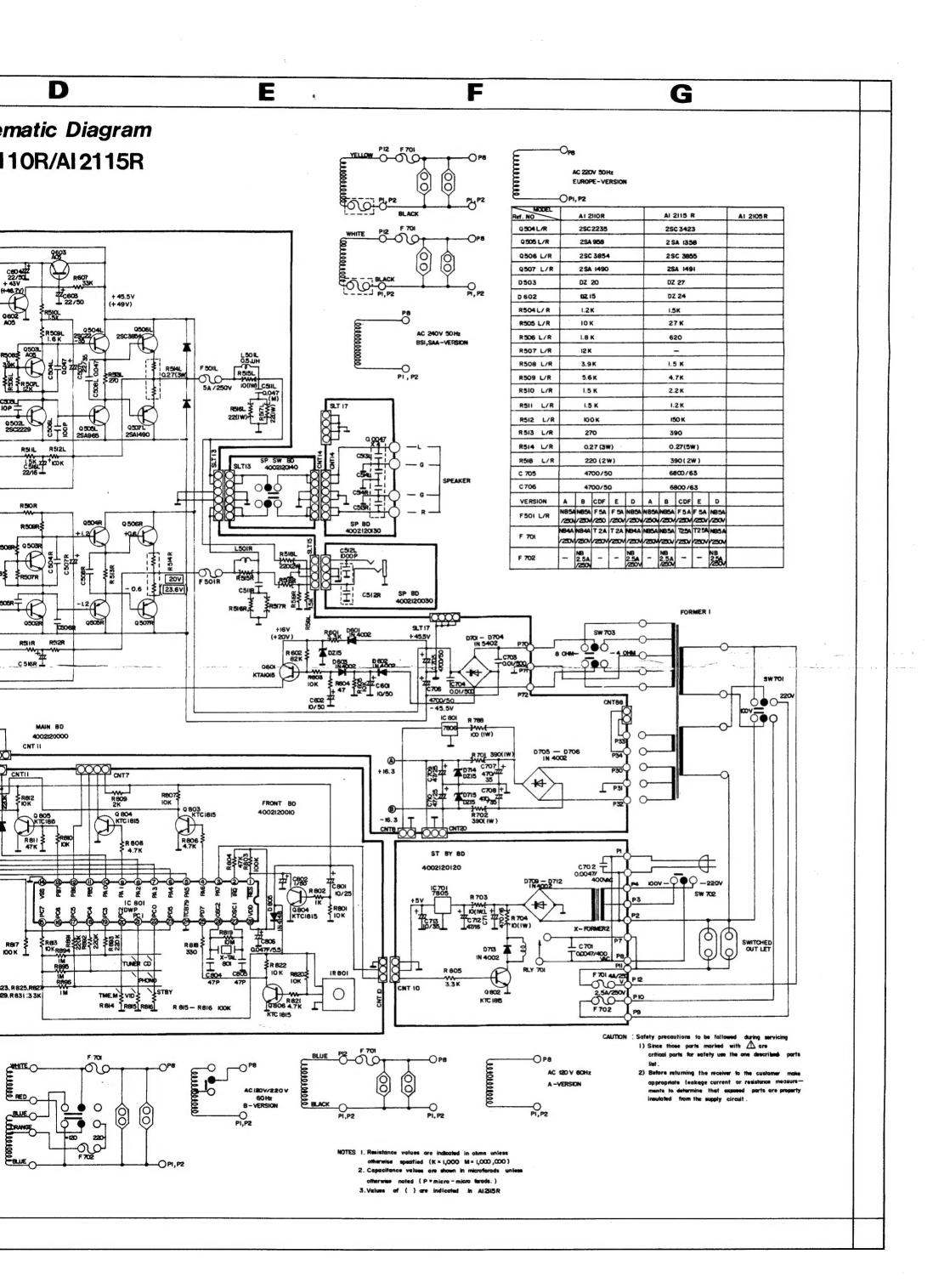
No.	Part No.	Description	Q'ty	Position	Remark
1	046122019911	Top Cover, Dark Gary	1	A5	
2	048501015713	Panel Front, Dark Gary	1	A3	
(2)	(048501015715)	Panel Front, Dark Gary, Al2110R only	1	A2	Domestic
(2)	(048501015711)	Panel Front, Dark Gary, Al2115R only	1	A2	
3	048545066811	Knob Power, Dark Gary	1	A3	
4	048545068211	Knob Speaker, Dark Gary	1	A3	
5	048545067211	Knob Rotary, Bass/Treble/Balance	3	A2	
6	048543024011	Knob Rotary, Main	1	B1	
7	8523010910	Decoration Ring	1	B1	
8	8555027310	Remote Acryl	1	C2	
9	048543024311	Tact Knob, 5key	1	C2	
10	4628055310	Speaker Switch, 1key	1	A4	
11	4438004420	Phone Jack, 3P	1	B3	
12	4658002020	Tact Switch	6	C2/B4	
13	3208049510	Volume Switch 100KC×2	2	B3	
14	3208052010	Volume Switch 100KSW	1	C3	
15	8543026410	Push Knob, Direct	1	C3	
16	4628050110	Push Switch, 1key	1	C3	
17	6705008320	LED Spacer	5	C3	
18	2138099103	Sensor Remote	1	C3	
19	8305001620	Washer	1	B3	
20	6505099210	Bracket Heatsink, Right	1	E3	
21	7503011410	Power Heatsink	1	D3	
(21)	7503011510	Power Heatsink for Al2115R only	1	D3	
22	6505096410	Bracket Heatsink	1	D5	
23	8543024410	Push Knob, Loudness	1	C2	
24	6303001410	Shaft Knob	1	D2	
25	4628044010	Push Switch, 1key	1	D2	
26	3208054310	V/R 100KA×2, Motor	1	D3	
27	6505098610	Volume Bracket	1	D1	
28	2828072701	Stand-By Transformer for Al2110R only	1	B4	A
(28)	(2828065701)	Stand-By Transformer for Al2115R only	1	B4	Α
29	7505206220	Regulator TR Heatsink	1	C4	
30	6528300310	Spacer Support	1	C5	
31	6122619910 4438103010	Side Frame, Left RCA Jack, 4P	1 2	D5 D4	
33	4438103210	RCA Jack, 6P	1	E5	
34	4438103210	RCA Jack, 3P	1 1	E4	
35	4408000910	Speaker Terminal, 4P	1	E5	
36	6122620010	Side Frame, Right	1	F4	
37	4408104910	Ground Screw	1	F5	
38	4628000410	Voltage Selector, Al2110R only	3	D6	Domestic, B
		Voltage Selector	1	D6	A,C,D,E,F
39	6515000630	Voltage Holder, AI2110R only	3	D6	Domestic, B
(39)	(6515111630)	Voltage Holder	1	D6	A,C,D,E,F
40	4448100410	Out Let, Black, Al2110R only	2	E6	Domestic
(40)	(4448102110)	Out Let, Black	2	E6	A,B
(40)	(4448103110)	Out Let, Black	2	E6	C.D.F
41	6513000310	Cord Stopper AC, Black Al2110R only	1	E6	Domestic
(41)		Cord Stopper AC, Black	1	E6	A,B
(41)	(6518000111)	Cord Stopper AC, Black	1	E6	C,D,F
(41)	(6513000210)	Cord Stopper AC, Black	1	E6	E
42	4308001610	Cord AC Power, Black AI2110R only	1	F6	Domestic
(42)	(4308001410)	Cord AC Power, Black	1	F6	A,B
(42)	(4308000430)	Cord AC Power, Black	1	F6	C,D,F
	(4308000610)	Cord AC Power, Black	1	F6	E
43	6163108310	Shield Cover	1	D3	
44	(046102027216)	Back Chassis, Black, Al2110R only	1	F4	Domestic
(44)		Back Chassis, Black, Al2110R only	1	F4	A
(44)		Back Chassis, Black, Al2110R only	1	F4	В
		Back Chassis, Black, Al2110R only	1	F4	C
(44)	(046102027256)	Back Chassis, Black, Al2110R only	1	F4	D
(44)		Back Chassis, Black, Al2110R only	1	F4	E

No.	Part No.	Description	Q'ty	Position	R
(44)	(046102027276)	Back Chassis, Black, Al2110R only	1	F4	F
(44)	(046102027286)	Back Chassis, Black, Al2110R only	1	F4	Ful
44	(046102027221)	Chassis Back, Black Al2115R only	1	F4	Α
(44)	(046102027231)	Chassis Back, Black Al2115R only	1	F4	В
(44)	(046102027241)	Chassis Back, Black Al2115R only	1	F4	C
(44)	(046102027251)	Chassis Back, Black Al2115R only	1	F4	D
(44)	(046102027261)	Chassis Back, Black Al2115R only	1	F4	E
(44)	(046102027271)	Chassis Back, Black Al2115R only	1	F4	F
45	2828073901	Main Transformer for Al2110R only	1	F4	Α
(45)	(2828073301)	Main Transformer for Al2115R only	1	F4	Α
46	6122414720	Bottom Cover	1	F3	
47	046035102111	Foot Base, Gold	4	E1/F1	1
48	6725002510	Cushion Foot, Black	4	E1/F1	
49	4358509400	Terminal Remote for CD, Deck, EQ,Tuner	1	D5	
50	4358502405	Terminal Remote for Timer, Al2110R only	1	D5	Doi
(50)	(8209540011)	Nut Flange M4 ZNY for AI2115R only	4	B6	ΑII
51	6715017320	Rubber Sponge	1	D6	
52	4428300310	AC Adaptor for AI2110R only	1	F6	Do
(52)	6163108410	Shield Fence for Al2115R only	1	C1	All
53	6163108410	Shiled Fence	1	C1	
(53)		Not used for Al2115R only		•	
Scre	ews				
S1	8119230083	PTC #2 3×8 ZNB	11		
S2	8159440083	WSAM 4×8 ZNB	4		
S3	8109230081	BTC #2 6 3×8 ZNY	12		
S4	8109230083	BTC #2 3×8 ZNB	4		
S5	8159226081	WPTC #26×8ZNY	3		
S6	8159230081	WPTC #2 3×8 ZNY	11		
S7	8109230061	BTC #2 3×6 ZNY	7		
S8	8119330083	PTC #3 3×8 ZNB	6		Do
(S8)	8119330083	PTC #3 3×8 ZNB	2		A,C
S9	8119240061	PTC #2 4×6 ZNY	1		
\$10	8159440081	WSAM 4×8 ZNY	4		
S11	8059130121	HEXM 3 × 12 ZNY	4		

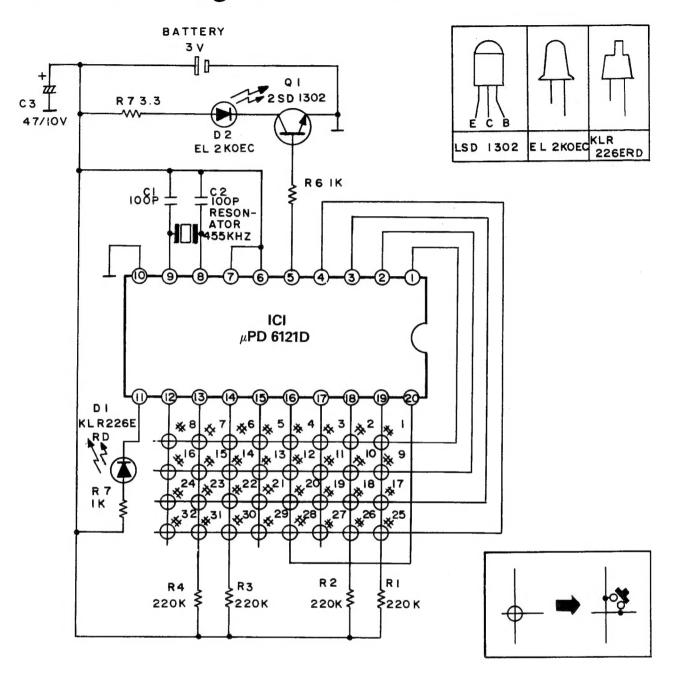
### Remocon Parts

No.	Part No.	Description	Q'ty	Position	R
1	048535024711	Function Plate, Black	1		
2	048582000711	Top Cover, Dark Gray	1		
3	048723000111	Rubber Tact	1		
4	8555028310	Upper Cover, P.C. Acryl	1		
5	6555604610	Spring (A)	1		
6	6555604810	Spring (C)	1		
7	6555604710	Spring (B)	1		
8	048582000811	Buttom Cover, Dark Gray	1		
9	048583003311	Battery Cover, Dark Gray	1		
10	8119620084	Screw #2 PM 2×10 ZNB	1		





### Schematic Diagram (Remocon Part)



#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
0	5	VIDEO	3	DECK PAUSE	CD PLAY	CD REPEAT	MAST V.UP	9	6	4	TAPE
#13	#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24
MUTE	CD PAUSE	SD SKIP+	MAST- V.DN	POWER	7	1	CD	MAIN V.UP	CD STOP	CD SKIP	EQ DEPEAT
#25	#26	#27	#28	#29	#30	#31	#32				
PHONO	8	2	TUNER	MAIN V.DN	CD RANDOM	SURR MODE	EQ TAPE MONITOR				

